

ORANGE SCREEN COMPANY • MAPLEWOOD, N. J.

DETAILS AND DATA
for **SCREEN**
INSTALLATIONS



ORANGE SCREEN COMPANY



Designers and Manufacturers

of a Complete Line of All Types of

WOOD and METAL SCREENS

For over 28 years, the Orange Screen Company has manufactured screens. It is equipped to produce screens of the highest quality to meet any screening requirement — in Extruded Bronze, Bronze Seamless Tubing, Steel Tubing, or Wood.

For the efficient erection of Orange Screens, authorized agents are established in all prominent localities throughout the United States. See back cover for the Orange Screen representative in your locality.

**THE SELECTION OF THE
PROPER SCREEN MATERIAL
SHOULD BE GOVERNED BY
ATMOSPHERIC CONDITIONS**

In selecting screen materials best suited for any building, consideration should be given to the atmospheric conditions to which the screen will be subjected. In order to assure our customers of materials correct in every detail, the Orange Screen Company has, for many years, observed and studied the reactions of screening materials under varying climatic changes and atmospheric pollution. For over 25 years records of reactions in various sections of the country as well as laboratory test records have been kept. Results indicate that conditions in neighboring localities often vary to a surprising extent.

All this information and research is available to Architects, Building Contractors and Home Owners.

**IN PREPARING WORKING
DRAWINGS . . . SCREENS
SHOULD BE CONSIDERED**

No longer are screens regarded as additional equipment which may be installed at a later date. Modern building construction demands that suitable provision be made in the window detail—so that the screens may operate free of interference from sash hardware, Venetian blinds, shades or other window equipment.



CO-OPERATION WITH THE ARCHITECT

In order to assist the Architect in planning the correct screening equipment, this catalog is designed. On the following pages are shown comprehensive detail plates which cover the majority of screening problems encountered in residences and commercial and industrial buildings.

For projects and requirements beyond the scope of these details, the Orange Screen Company is prepared to detail specific recommendations.

CO-OPERATION WITH WINDOW MANUFACTURERS

When specified by the Architect, we co-operate with metal window manufacturers to provide suitable and economic methods of screening practically every type of window. It is therefore possible to obtain Orange Screens regardless of make of sash.

Relative Advantages of

ALUMINUM • BRONZE • STEEL • WOOD

—as Screening Materials

EXTRUDED ALUMINUM (Hard Aluminum Alloy) FRAMES

Aluminum Frames offer the advantages of light weight, freedom from stain—and reduced section dimensions to permit the narrowest sight line. As they are solidly welded at the joints, they also afford the greatest rigidity, strength and durability. They blend well with light colored finishes and require no painting. These Aluminum Frames are available in a variety of extruded shapes to meet practically any requirement — and are wired with aluminum alloy, bronze or stainless steel wire cloth.

SEAMLESS BRONZE TUBING FRAMES

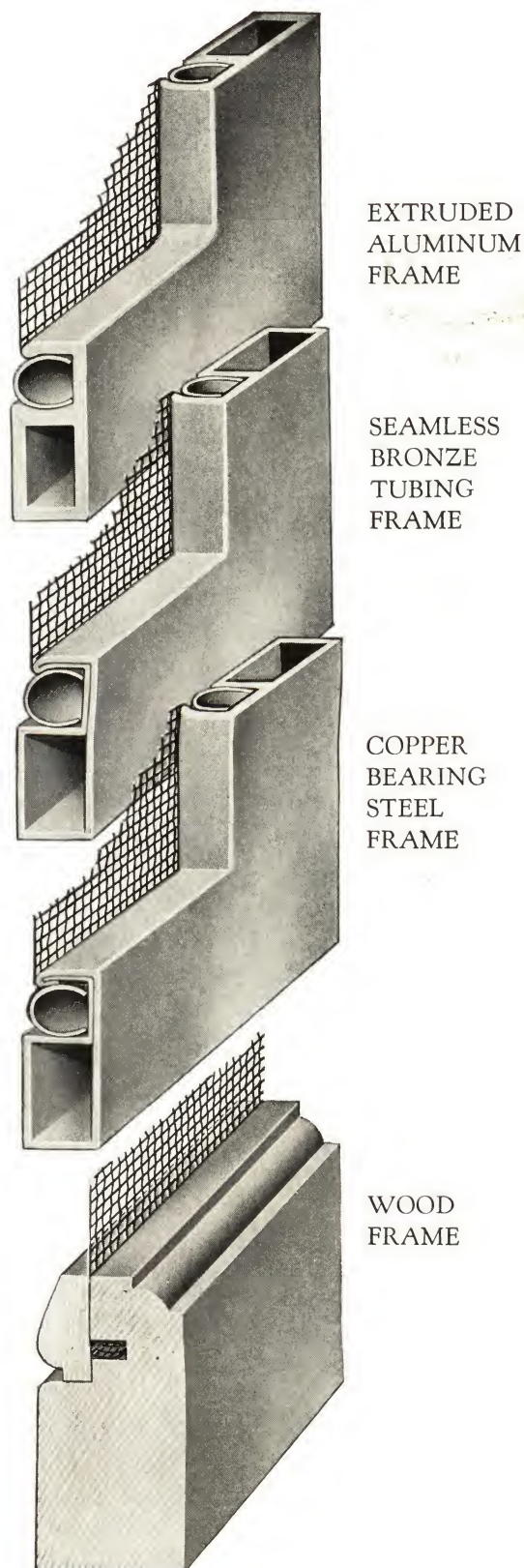
Although not as rigid as the aluminum frames, Orange Bronze Tubing Frames are stronger and more durable than the conventional rolled bronze frames. They require no painting and blend with dark trim finishes. (They do, however, have a tendency to stain light colored sills and trim.) They are made in relatively small sections and wired with bronze wire cloth.

COPPER BEARING STEEL FRAMES

Steel Frames, while not as rigid as the aluminum frames, are sufficiently strong when built in small sections. They can be painted or enameled to match any color. They require periodic refinishing to prevent rust. Wired with bronze, aluminum or stainless steel wire cloth.

WOOD FRAMES

Wood Frames are the lowest in first cost. They do not have the strength and durability of metal frames and require much larger frame sections. They may be painted to match any color but require periodic repainting; this must be considered as a continual cost. Wired with bronze, aluminum or stainless steel wire cloth.



EXTRUDED
ALUMINUM
FRAME

SEAMLESS
BRONZE
TUBING
FRAME

COPPER
BEARING
STEEL
FRAME

WOOD
FRAME

Screen Wire

The selection of the wire which insures most satisfactory results depends greatly on local conditions. We will be glad to recommend a type which is most economical for any particular locality. This recommendation service is based on our 25 years' study of reaction of screening materials to climatic conditions.

16-mesh wire cloth is supplied as standard. However, 18-mesh or finer can be supplied when specified.

Aluminum (Special Alloy) Gunmetal Finish Screen Wire—Available in any width up to 48". Supplied in .0126" standard, and .015" heavy gauge. Standard on Orange Aluminum Screens. Can also be supplied on other types of Orange Screens. As aluminum alloy does not form colored salts of oxidation, it will not stain white paint, stucco, limestone or other light-colored materials.

Bronze (Antique Finish) Screen Wire — Available in any width up to 72". Supplied in .011" standard, and .015" heavy gauge. Although bronze has been the standard wire cloth for many years, its natural oxidation eventually causes discoloration of light-colored sills and trim.

Stainless Steel Screen Wire—Available in any width up to 48". Supplied in .009" standard, .011" heavy, and .015" extra heavy gauge. Although this is the most expensive wire cloth, it is the most durable. It resists corrosion better than aluminum or bronze wire—even under the most severe atmospheric conditions. Under ordinary conditions, however, its extra cost is not warranted.

Extruded ALUMINUM HARD ALUMINUM ALLOY SCREENS

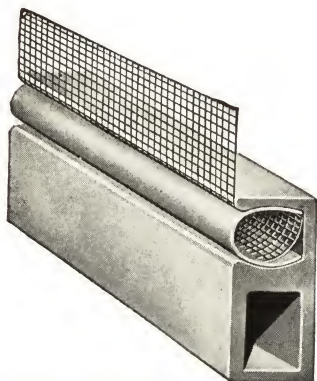


FIG. 1. WIRE LOCKING DETAIL

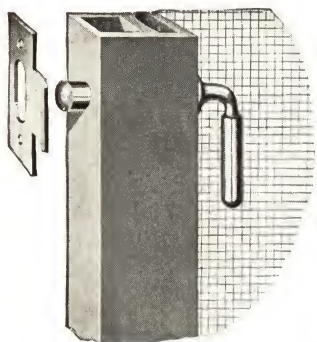


FIG. 2. SPRING BOLT DETAIL

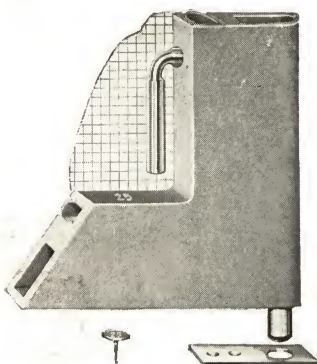


FIG. 3. MOVABLE PIVOT DETAIL

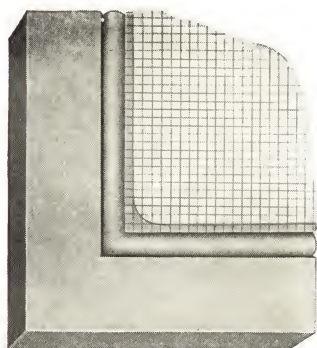


FIG. 4. WELDED CORNER DETAIL

THIS COMPANY HOLDS BASIC PATENTS FOR THE MANUFACTURE OF EXTRUDED ALUMINUM SCREENS

The Orange Screen Company pioneered the Extruded Aluminum Frame Screen and holds many basic patents for this purpose. The aluminum alloy used is 53ST5, developed by the Aluminum Company of America. It is one of the strong non-ferrous alloys and possesses great tensile strength, extreme elasticity and a rigidity that makes it unsurpassed for metal frame screen construction.

ADVANTAGES OF ORANGE EXTRUDED ALUMINUM SCREENS

Extruded Sections

Extruded aluminum allows the making of long, extremely accurate seamless sections—in practically any shape desired—to meet varying conditions and at comparatively low cost. These sections may be used for the smallest window screen to the largest porch screen.

Great Strength Due to Increased Sectional Thickness and Welded Corners

The increased wall thickness (.064) — obtained by extruding the aluminum — gives a greater inherent strength to the frames. In addition, all corners are welded—and consequently are as strong as the wall section itself. Extruded Aluminum Frames, therefore, guarantee a strength greater than bronze or steel frames of equal size.

Extreme Lightness

Aluminum Frame Screens are approximately one-half the weight of other metal screens. This insures ease in handling and storing.

Larger Daylight Opening

Due to the narrowed dimensions, Extruded Aluminum Frames afford greater visibility. A recent test showed that Orange Aluminum Frames permit as much as 22% more air and light.

Not Affected by Abrasion

Extruded Aluminum Frames require no coatings—but have a permanent wire-brush finish. *They are, therefore, unaffected by scratching or abrasion.*

Do Not Discolor Stone, Stucco or Wood

Orange Aluminum Alloy Frames and Screen Wire are rust-proof. Exposure to the weather does not cause any green staining from salts of oxidization which soil adjacent walls and trim; this is a most important consideration to the Architect as well as the owner of the building.

ORANGE EXTRUDED ALUMINUM PORCH SCREENS AND SCREEN DOORS

In addition to window screens of extruded aluminum, Orange Screen Company also builds Porch Screens and Screen Doors of this durable metal. On account of the greater rigidity of extruded aluminum, Orange Porch Screens can be built with narrowed dimensions—and consequently permit larger sections without obstructing braces. (See pages 14-15.) Orange Doors, likewise, offer new advantages in light weight construction and narrower stiled frames.

STANDARD SPECIFICATIONS FOR EXTRUDED ALUMINUM FRAME SCREENS

For Windows, Doors and Porches

1. GENERAL

Screen frames for window and door screens shall be of rewireable type constructed of extruded aluminum sections as manufactured by Orange Screen Company, Maplewood, N. J.

2. SCOPE OF WORK

Contractor shall furnish all labor and material required for the furnishing and installation of insect screens as indicated on the drawing or herein specified. Screens shall be required at all exterior doors and windows and shall cover the ventilating portion of the window only, unless otherwise specified.

3. SAMPLES AND SHOP DRAWINGS

Before work has begun contractor shall submit for approval finished sample corner for each type of screen, including hardware, also sample of wire mesh, guide strip, etc., with drawing showing any special conditions.

4. ARRANGEMENT

Unless otherwise specified screens shall be installed in the following manner.

(a) Double hung windows shall be screened with outside full length screens with cross brace opposite the meeting rail of the window. Each screen shall be top pivoted with fixed and movable pivots built in top rail of screen, and held in place with one spring catch in each stile.

(b) Double hung windows shall be screened with twin vertical sliding screens placed on the outside (or inside) of windows. Screens shall operate in zinc (or extruded aluminum) guides attached to window jamb with (wood or machine) screws, spaced approximately 12" on centers. Each guide shall be one piece extending the full height of the jamb. Each screen shall be equipped with two compression springs of an approved type placed on one side of the screen. Lower screen shall have two stainless steel pulls on the bottom rail. Top screens shall have two stainless steel pulls placed on the bottom edge of the bottom rail, shall have two spring bolts sliding in the thickness of the screen and operated by levers or finger latch.

(c) Casement windows, side-hung opening out, equipped with "screen-type hardware" shall be screened with inside flat screens secured to sash frame by means of suitable clips.

(d) Projected or bottom hung ventilators, opening in at the top shall be screened with outside screen secured to sash frame by means of spring bolts and top pivots, so that screen can be readily removed or replaced. Screen frame shall have a flange extruded as an integral part of the section or fitted with subframes to allow for proper clearance for operation of ventilators.

(e) Projected or top hung ventilators, opening out at the bottom equipped with "screen-type hardware" shall be furnished with same type of screen as specified in paragraph "d", above.

(f) Projected or top hung ventilators, opening out at the bottom equipped with standard sash manufacturer's hardware shall be furnished with top hung screen mounted in steel extension box frame to clear sash hardware.

(g) In-opening casements shall be furnished with outside full length screens, held in place with spring bolts.

(h) Exterior doors shall be screened with metal screen door complete with hardware fittings. Hanging stiles to be provided for all doors for which no rabbet is prepared at the building. Hanging stiles shall be of sufficient size, weight and strength to adequately support and carry the screen doors. Hanging stiles to be of the same material as the existing door frame and to be finished to correspond.

(i) Screens at openings not particularly mentioned or described, shall be of approved type most suitable for location, use and design of the opening.

5. MATERIAL AND CONSTRUCTION

Frames for window and door screens shall be the rewireable type constructed of specially extruded solid one piece aluminum sections 53ST5 alloy.

All corners and braces shall be integrally welded with 3/16" reinforcing fillets and surfaces finished smooth in natural aluminum wire brush finish. Wire cloth shall be drawn and held taut in place with aluminum moulding rolled into the channel of the frame.

6. WINDOW SCREENS

Frames for window screens shall be extruded aluminum with minimum wall thickness not less than 1/16". Screens up to 3'-0" x 6'-0" shall have 7/16" x 5/8" frames; up to 3'-6" x 7'-0" shall have 7/16" x 3/4" frames; up to 4'-6" x 8'-0" shall have 7/16" x 1" frames; up to 5'-6" x 9'-0" shall have 7/16" x 1 1/2" frames.

Screens over 4'-2" in width or height shall have a brace. Braces shall also be furnished in 7/16" x 5/8" screens containing over 10 square feet, 7/16" x 3/4" screens containing over 14 square feet, 7/16" x 1" containing over 16 square feet, 7/16" x 1 1/2" screens containing over 24 square feet.

7. SCREEN DOORS

Refer to detail and specifications on page 17.

8. PORCH SCREENS

For details and specifications see page 15.

9. WIRE CLOTH

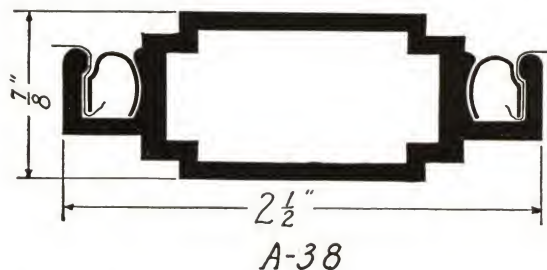
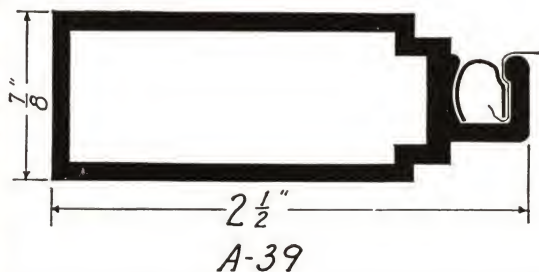
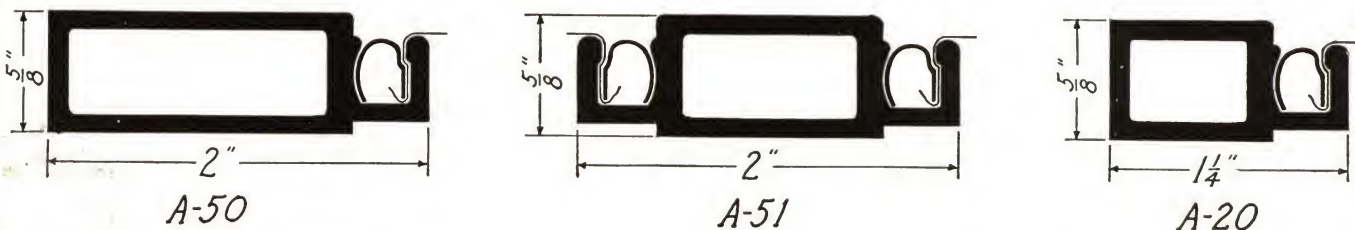
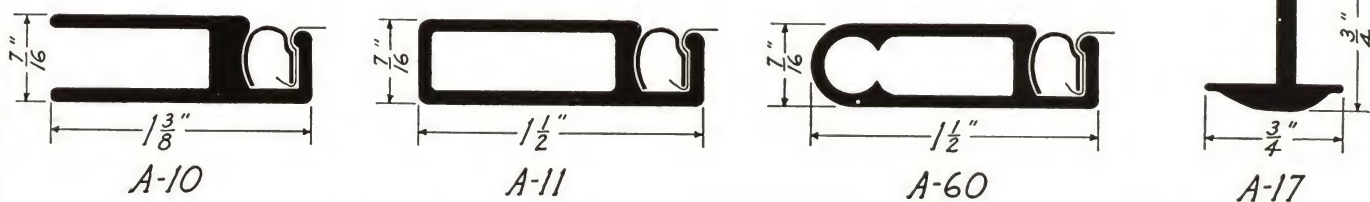
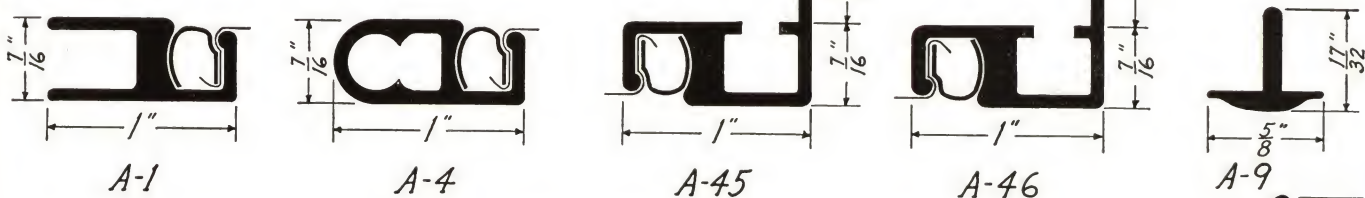
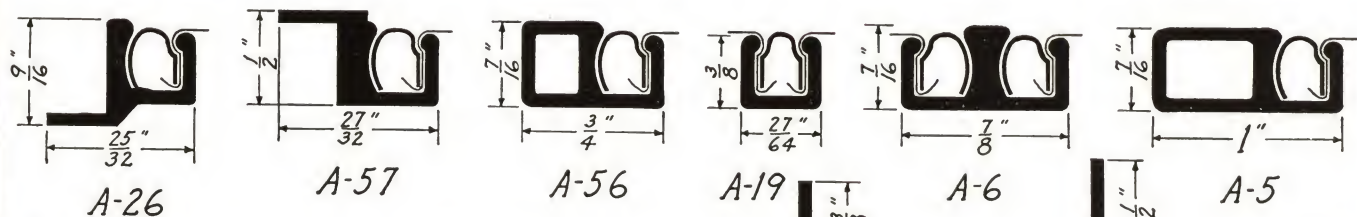
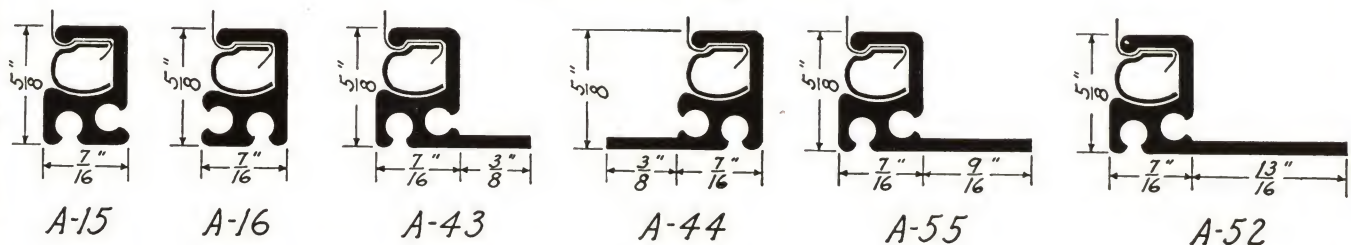
Wire cloth shall be 16 mesh aluminum in dull coated finish, .0126" diameter for window screens and .015" diameter for doors.

10. INSTALLATION

All screens shall be accurately fitted and secured in such a manner that they may be readily removed or reinstalled without damage to existing work. Screens shall be installed complete with all necessary hardware. Screens shall be stamped with a number and shall have a corresponding number on the adjacent trim.

EXTRUDED ALUMINUM FRAME SCREEN AND DOOR SECTIONS

SCALE—FULL SIZE

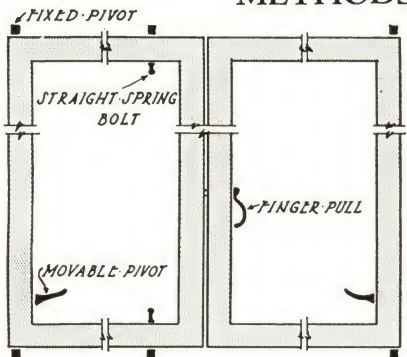


ORANGE · SCREEN

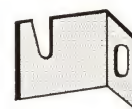
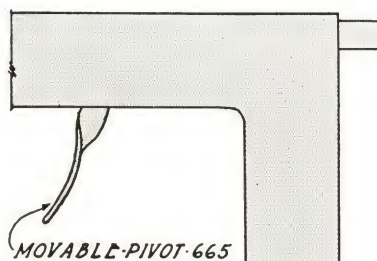
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515 · VALLEY · ST. MAPLEWOOD · N. J.

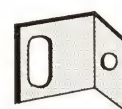
METHODS OF APPLYING SCREENS, HARDWARE AND SCREEN GUIDES



PAIR OF CASEMENT-SCREENS.



CLIP 578



CLIP 566



CLIP 500



CLIP 593



CLIP-586

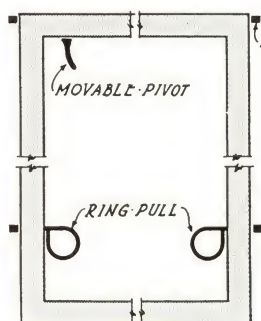


CLIP-525

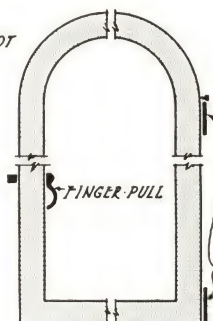


CLIP-508

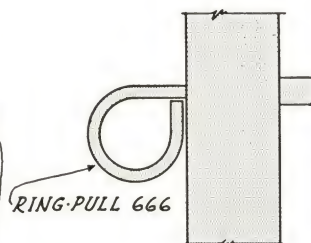
TYPE-OF CLIPS USED FOR HOLDING
SCREENS IN PLACE ON STEEL CASEMENTS
AND PROJECTED VENTILATORS
SCALE- $\frac{1}{2}$ FULL SIZE



TOP HUNG-SCREEN.



SIDE-HINGED-SCREEN



550



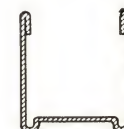
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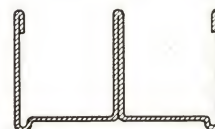
581-S



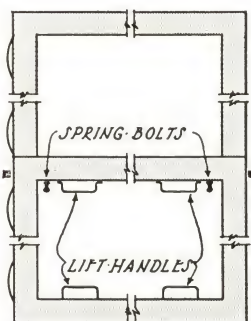
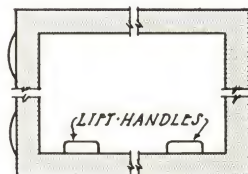
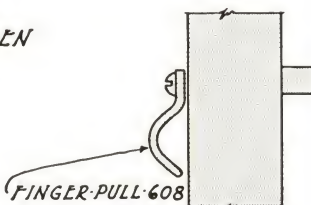
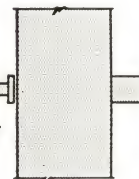
571-S



581-D



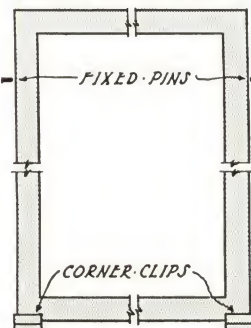
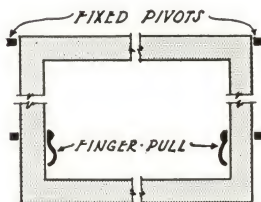
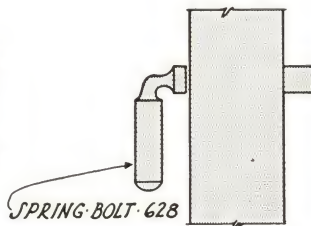
571-D

DOUBLE-VERTICAL
SLIDING-SCREENSSINGLE-VERTICAL
SLIDING-SCREENSTRAIGHT-SPRING
BOLT-637

A-33



A-30

FIXED-SCREEN-FOR
STEEL-CASEMENTSTOP-PIVOTED-SCREEN-FOR
PROJECTED-VENTILATOR

A-32

A-29

GUIDES FOR SLIDING SCREENS
SCALE-FULL SIZE

ORANGE-SCREEN
515 VALLEY ST.

31

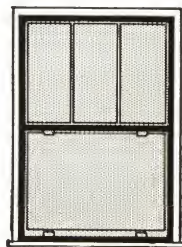
COMPANY-INC.
MAPLEWOOD N. J.

3 METHODS OF SCREENING DOUBLE HUNG WINDOWS

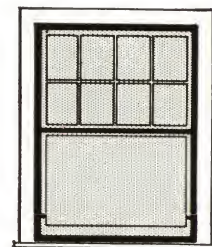
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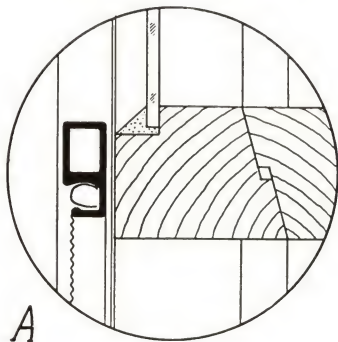
*SINGLE
VERTICAL SLIDING*



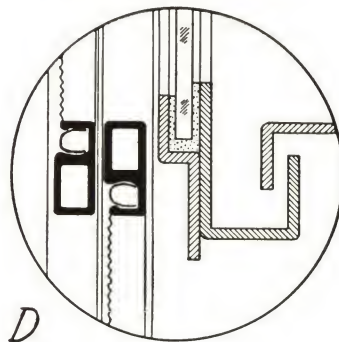
*DOUBLE
VERTICAL SLIDING*



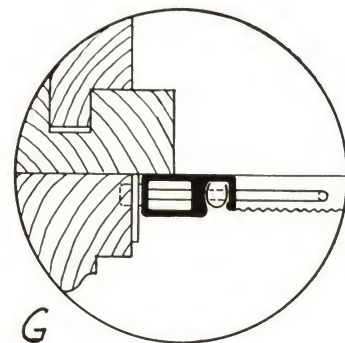
*TOP HUNG
FULL LENGTH*



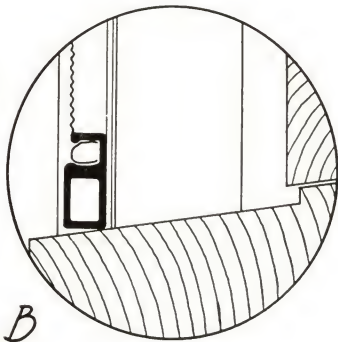
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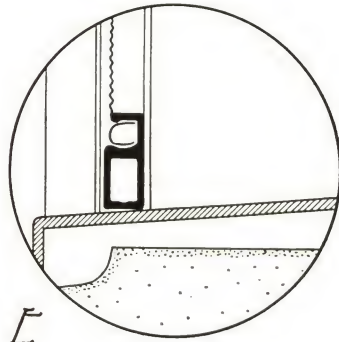
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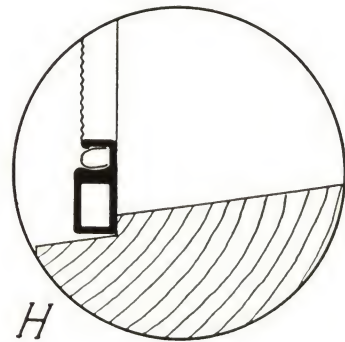
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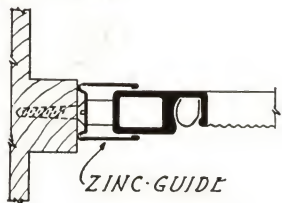
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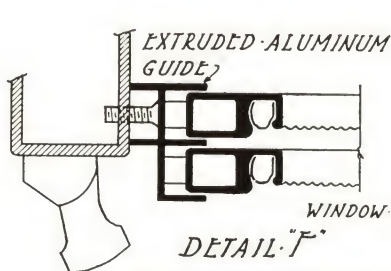


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ZINC GUIDE

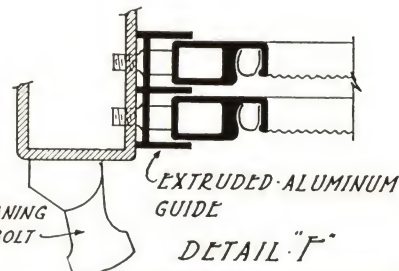
DETAIL "C"



*EXTRUDED ALUMINUM
GUIDE*

DETAIL "F"

*THIS TYPE OF GUIDE USED WHEN
JAMB OF WINDOW DOES NOT PROVIDE
SUFFICIENT SPACE FOR SCREENS.*



*EXTRUDED ALUMINUM
GUIDE*

DETAIL "F"

*THIS TYPE OF GUIDE USED WHEN
JAMB OF WINDOW PROVIDES
SUFFICIENT SPACE FOR SCREENS.*



DETAIL "J"

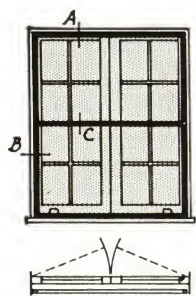
ORANGE · SCREEN
315 · VALLEY · ST.

32

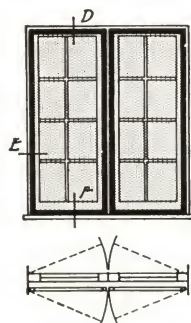
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3 METHODS OF SCREENING OUT-OPENING WOOD CASEMENTS

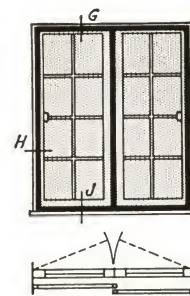
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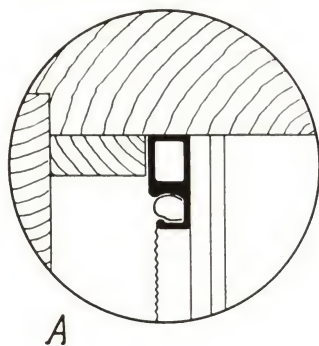
DOUBLE-VERTICAL
SLIDING SCREENS



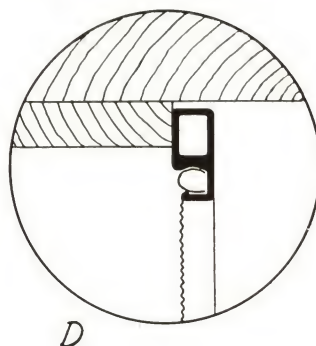
SIDE-HINGED
INSIDE SCREENS



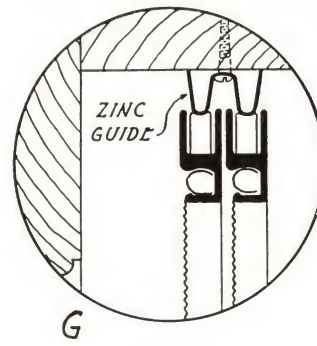
TWIN-HORIZONTAL
SLIDING SCREENS



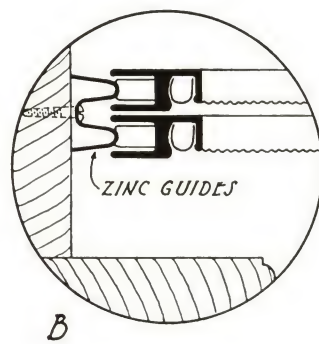
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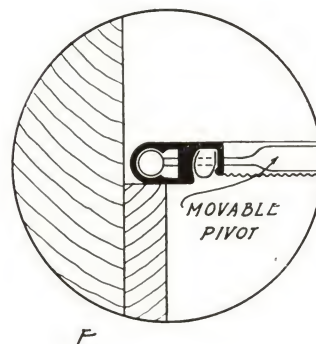
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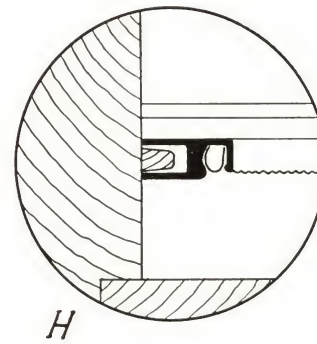
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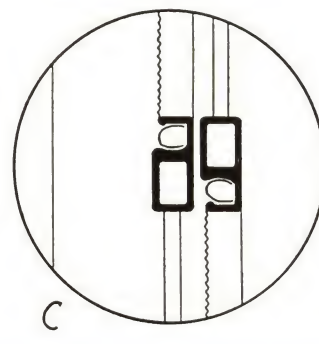
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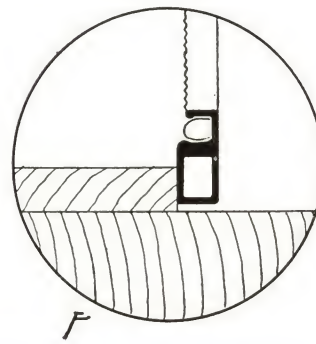
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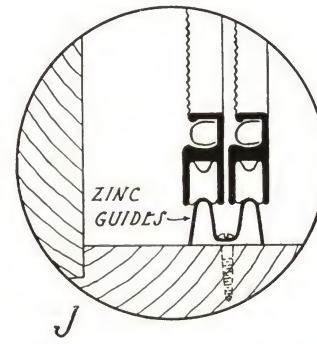
H



C



F



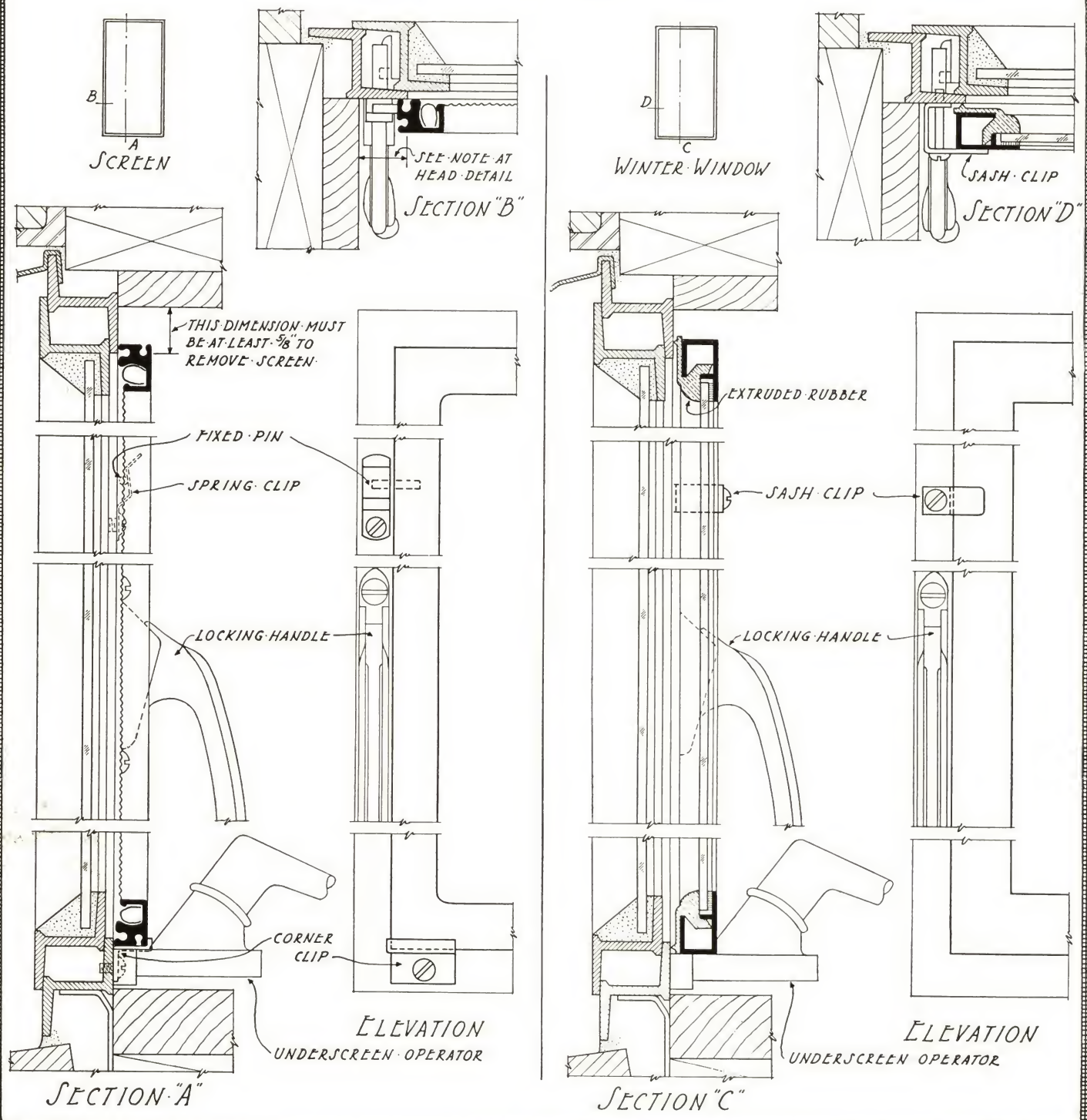
J

ORANGE · SCREEN

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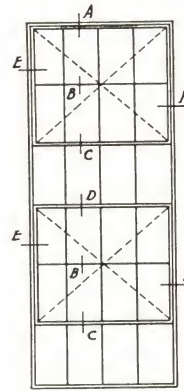
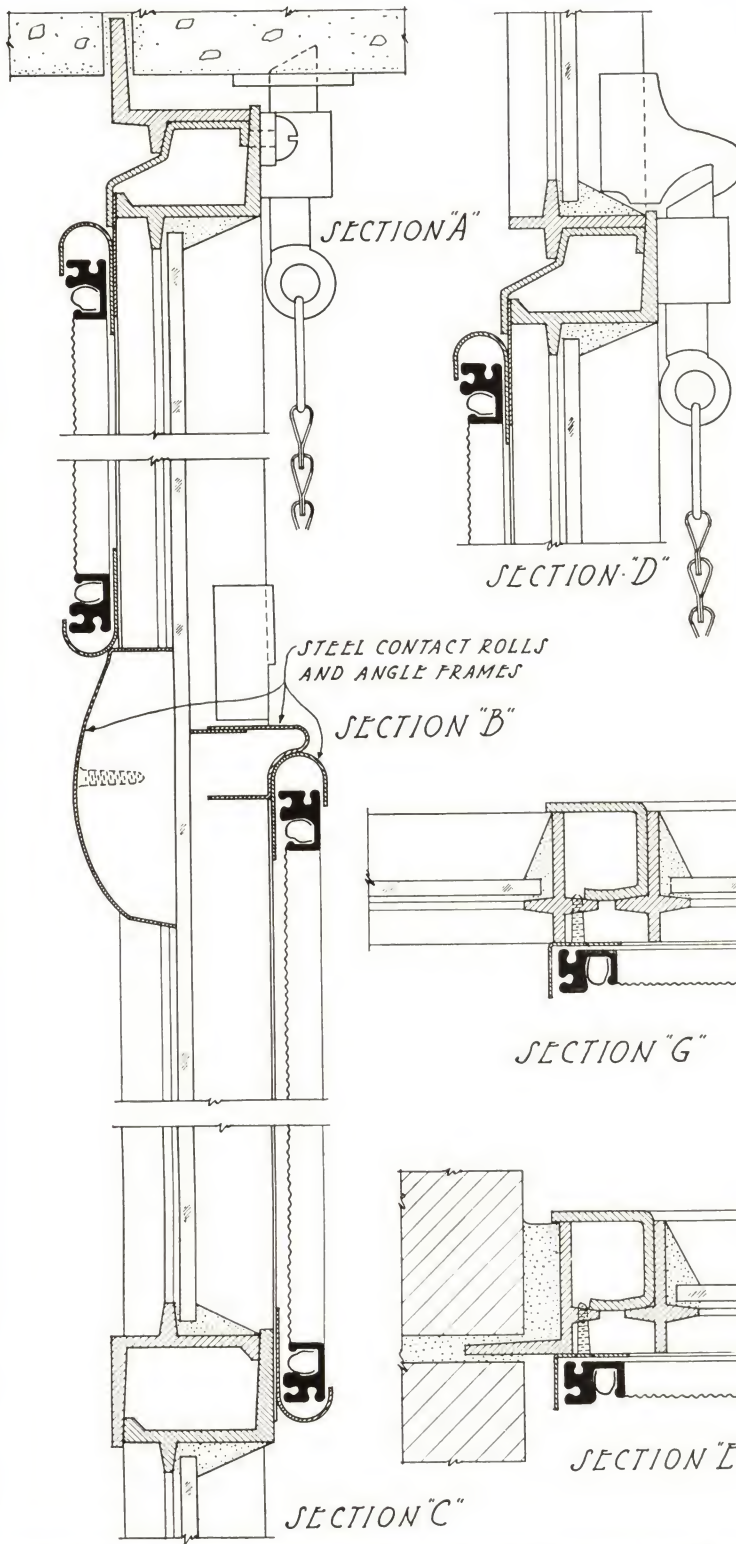
COMPANY · INC.
515 · VALLEY · ST.
MAPLEWOOD · N. J.

METHOD OF SCREENING AND APPLYING WINTER WINDOWS
TO STEEL CASEMENTS EQUIPPED WITH UNDERSCREEN OPERATOR
SCALE—1/2 FULL SIZE

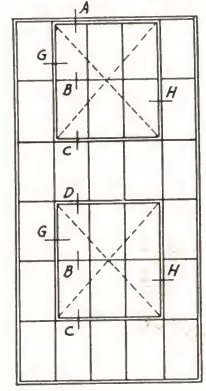


METHOD OF SCREENING STANDARD PIVOTED VENTILATORS

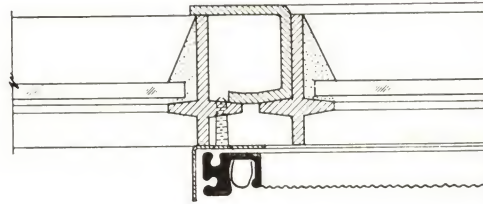
SCALE—1/2 FULL SIZE



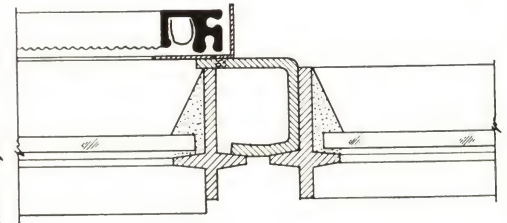
VENTILATORS FULL
WIDTH OF SASH



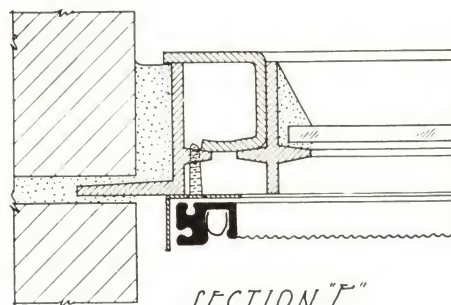
VENTILATORS WITH
FIXED SIDE LIGHTS



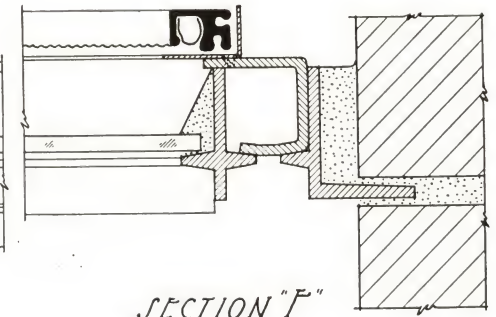
SECTION "G"



SECTION "H"



SECTION "E"



SECTION "F"

ORANGE · SCREEN
515 · VALLEY · ST.

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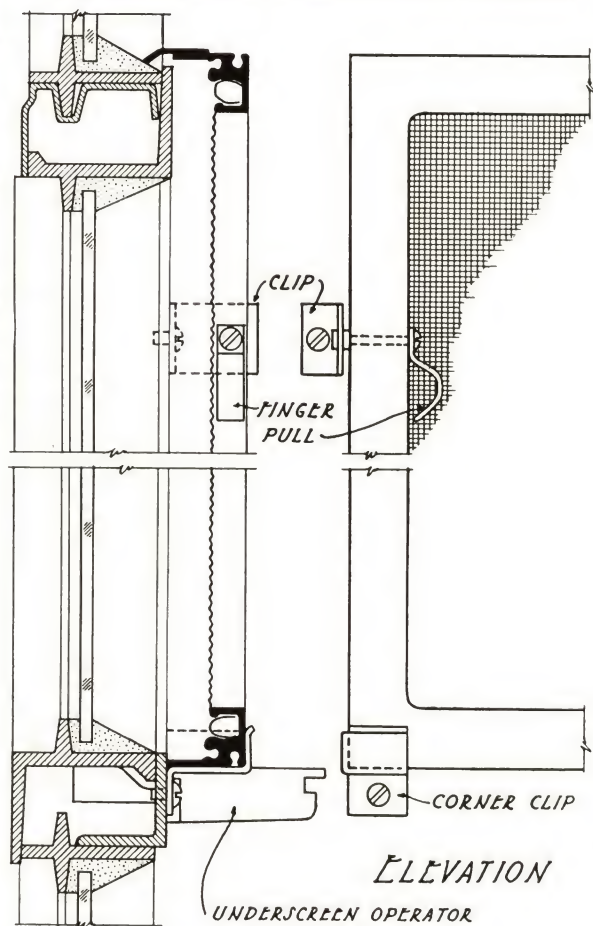
COMPANY · INC.
MAPLEWOOD · N. J.

METHOD OF SCREENING OUT-AT-BOTTOM PROJECTED VENTILATORS

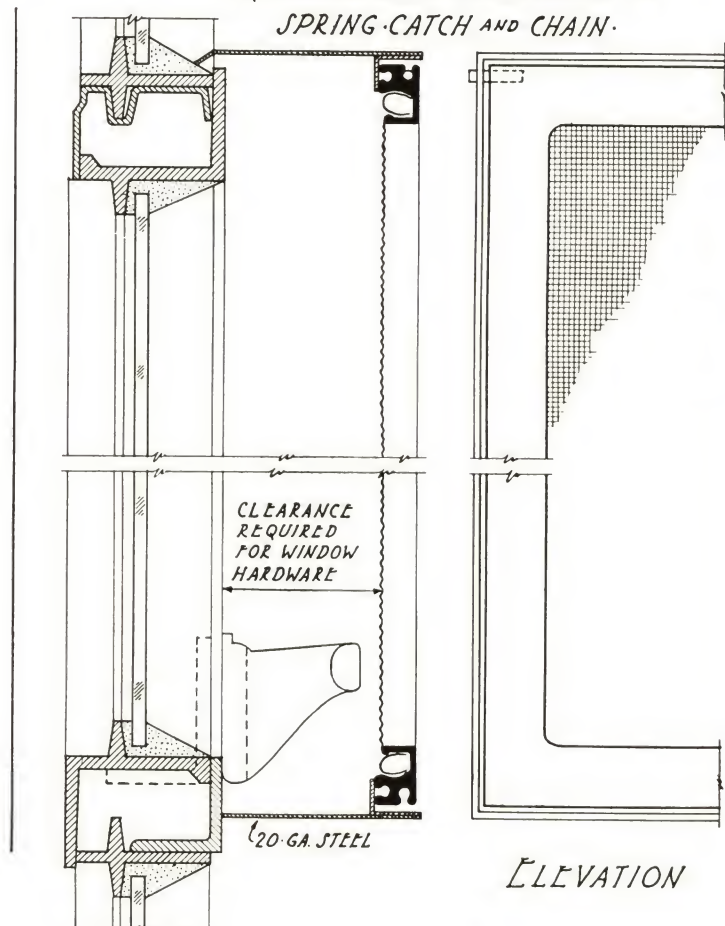
SCALE—1/2 FULL SIZE

DETAILS APPLIED TO VENTILATORS
EQUIPPED WITH UNDERSCREEN OPERATOR

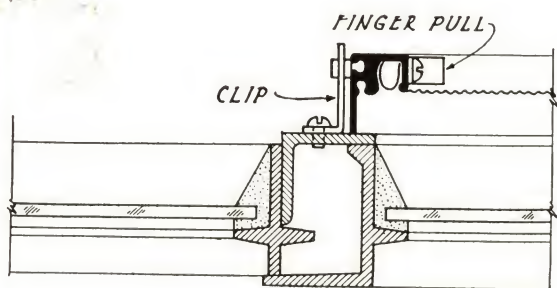
DETAILS APPLIED TO VENTILATORS
EQUIPPED WITH CAM HANDLE OR
SPRING-CATCH AND CHAIN.



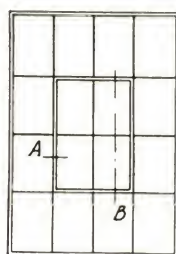
SECTION "B"



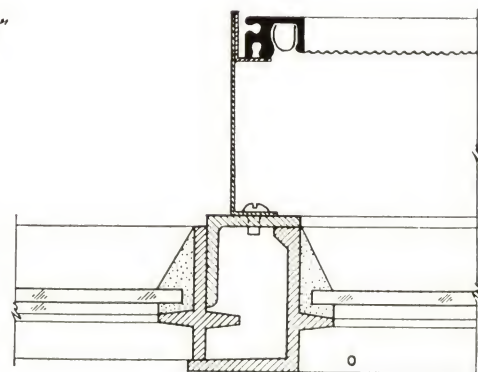
SECTION "B"



SECTION "A"



ELEVATION



SECTION "A"

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METHOD OF SCREENING IN-AT-TOP PROJECTED VENTILATORS

SCALE— $\frac{1}{2}$ FULL SIZE

SPECIFICATIONS

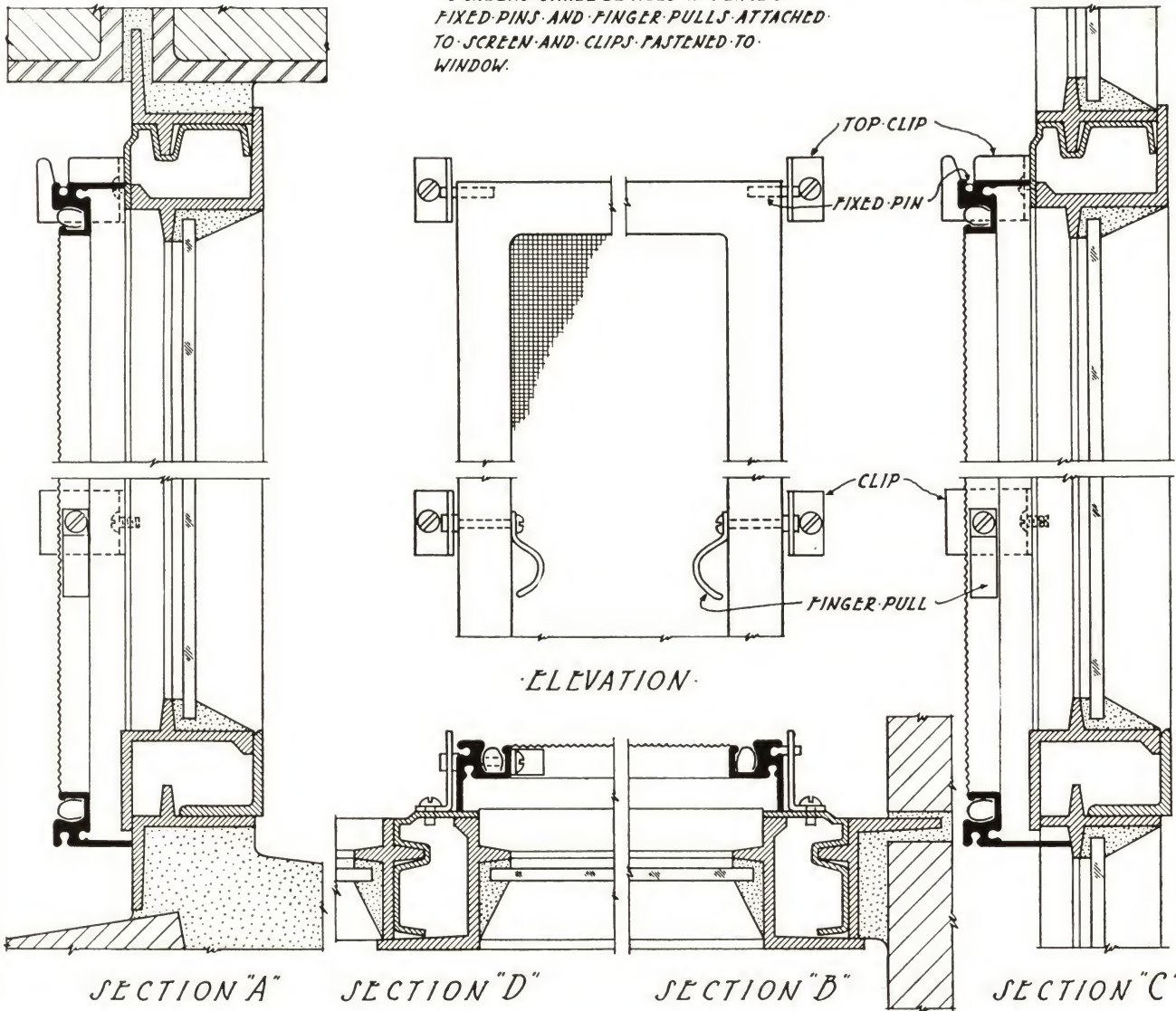
SCREEN FRAMES SHALL BE MADE OF $\frac{1}{4} \times \frac{3}{8}$ "
(WITH $\frac{3}{8}$ " FLANGE) EXTRUDED ALUMINUM,
5355 ALLOY WITH ALL CORNERS WELDED
AND SURFACES FINISHED SMOOTH IN A
NATURAL ALUMINUM WIRE BRUSH FINISH.
THE WIRE SHALL BE 16 MESH .0126"

ALUMINUM, DARK FINISH AND HELD IN
PLACE WITH ALUMINUM MOULDING,
ROLLED INTO CHANNEL GROOVE OF THE FRAME.

SCREENS SHALL BE HELD IN PLACE BY
FIXED PINS AND FINGER PULLS ATTACHED
TO SCREEN AND CLIPS FASTENED TO
WINDOW.

VENTILATOR SECTIONS
AT HEAD AND SILL

VENTILATOR SECTIONS
WITH FIXED LIGHTS
ABOVE AND BELOW



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The Screening of Porches with

ORANGE EXTRUDED ALUMINUM PORCH SCREENS

SCREENS are a necessary adjunct to a porch and should be made as inconspicuous as possible. As the porch is generally used as an outdoor living room in summer, heavy screen frames reduce its desired feeling of airiness. Porch screens correctly designed and made of durable materials prove a good investment.

Orange Extruded Aluminum Frame Screens for porches, on account of their great strength, allow the use of very small sections for large areas. The welded corners of the frames are more rigid and decidedly tighter than those of other materials. They will not rust, buckle or warp.

Orange Extruded Aluminum Screens are available in any size, style or shape.

Detailing Porch Screens

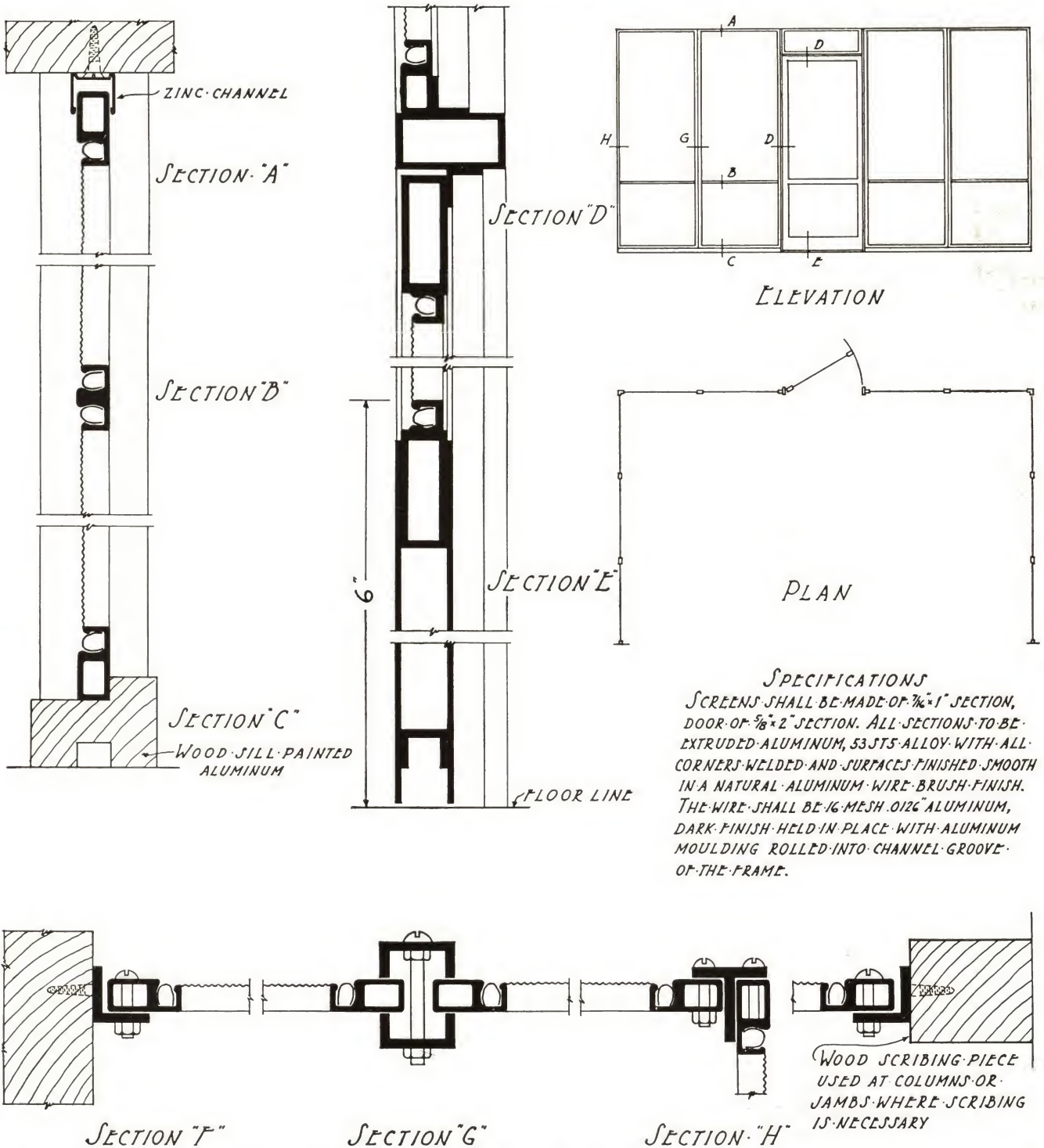
On account of the numerous installation conditions—which

vary on practically every porch—it is impossible to cover all by details in a catalog.

On Plate No. 38 (opposite) we show a practical and satisfactory method of fastening screen porch sections. This method may be modified to suit the job conditions. In the illustration we show screen sections $7/16'' \times 1''$ which come within the size limits of the average porch. For extremely large sections, we recommend the use of our extruded aluminum section $5/8'' \times 1\frac{1}{4}''$.

We can also furnish porch sections in bronze seamless tubing, tubular steel, or wood—when so specified. We will be glad to offer practical suggestions for screening any porch. For simplicity of erection, we suggest that you consult us when the scale details are being prepared.

STANDARD DETAILS OF
EXTRUDED ALUMINUM SCREEN PORCH
SCALE— $\frac{1}{2}$ FULL SIZE

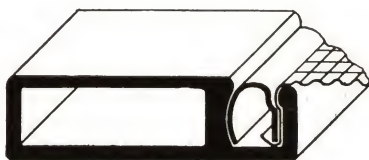


ORANGE SCREEN
515 VALLEY ST.

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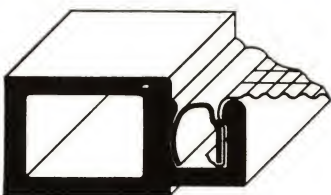
COMPANY INC.
MAPLEWOOD N. J.

DISTINCTIVE METAL SCREEN DOORS IN EXTRUDED ALUMINUM



LIGHT WEIGHT (TYPE 1A)

Sizes up to 2'-6" x 7'-0". Shall be $\frac{7}{16}$ " x $1\frac{1}{2}$ " with $\frac{1}{16}$ " walls. One rewirable brace $\frac{7}{8}$ " wide and 4" bottom rail.



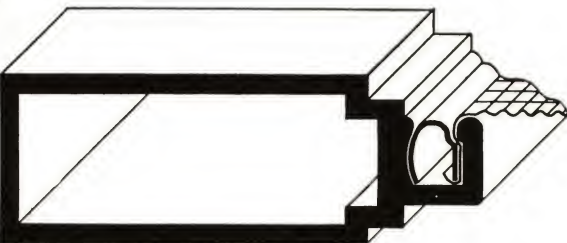
LIGHT WEIGHT (TYPE 5A)

Sizes up to 2'-6" x 7'-0". Shall be $\frac{5}{8}$ " x $1\frac{1}{4}$ " with $\frac{3}{32}$ " walls. One rewirable brace $\frac{7}{8}$ " wide with 2" bottom rail.



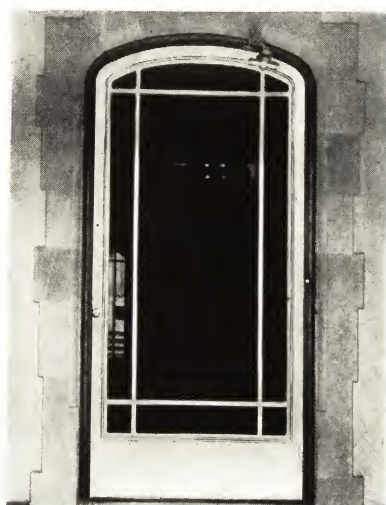
MEDIUM WEIGHT (TYPE 2A)

Sizes up to 3'-6" x 7'-6". Shall be $\frac{5}{8}$ " x 2" with $\frac{3}{32}$ " walls. One rewirable brace 2" wide and 6" bottom rail.



HEAVY WEIGHT (TYPE 3A)

Sizes up to 4'-0" x 8'-0". Shall be $\frac{7}{8}$ " x $2\frac{1}{2}$ " with $\frac{3}{32}$ " walls. One rewirable brace $2\frac{1}{2}$ " wide and 8" bottom rail.



ONE OF THE SPECIAL EXTRUDED ALUMINUM SCREEN DOORS WITH OVAL HEAD



THE MODERN KNOB AND ESCUTCHEON PLATE USED WITH MORTISE LOCK



THE MODERN LEVER HANDLE AND DEAD BOLT USED WITH MORTISE LOCK

TYPES AND SIZES

Door frames are fabricated from extruded sections illustrated herewith. They are designed according to the size of the opening and the service required.

CONSTRUCTION

Every corner is firmly welded and finished perfectly smooth to form a solid seamless frame with invisible joints. Welded corners are more effective, stronger and practically unbreakable.

DOOR HARDWARE

Door hardware of suitable design in non-ferrous metal, dull chrome finish, furnished as standard equipment. Ornamental guards or grilles also furnished if so specified.

BRONZE DOORS

Where so specified, we can furnish bronze doors in sizes comparable to the extruded aluminum sections illustrated herewith. Bronze doors are constructed of drawn seamless tubing, heavily reinforced and welded or brazed for strength and rigidity.

At left: EXTRA HEAVY WEIGHT (TYPE 4A)

Sizes up to 4'-0" x 9'-0". Shall be $1\frac{1}{8}$ " x $3\frac{3}{4}$ " with $\frac{3}{32}$ " walls. One rewirable brace $4\frac{1}{2}$ " wide and 8" bottom rail.

ORANGE · SCREEN

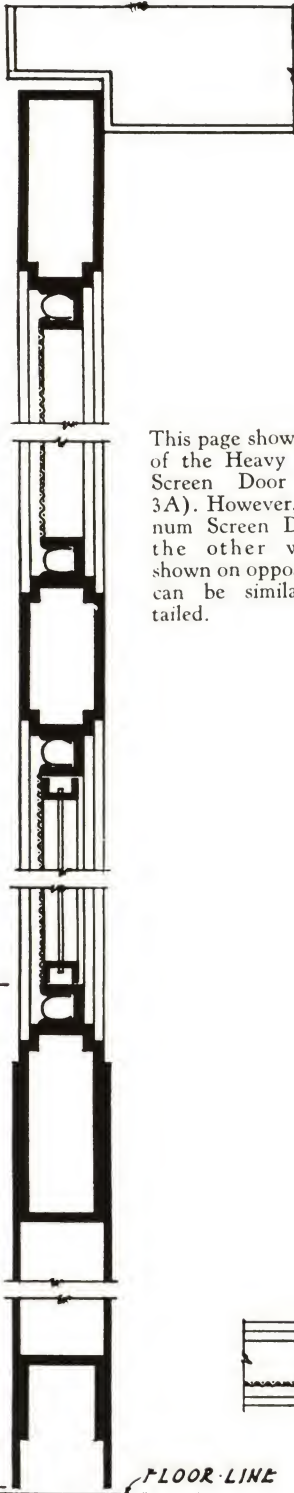
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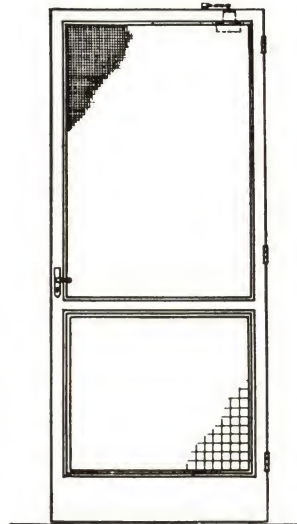
EXTRUDED ALUMINUM SCREEN DOORS

HEAVY WEIGHT (Type 3-A) • $\frac{7}{8}$ " x $2\frac{1}{2}$ "

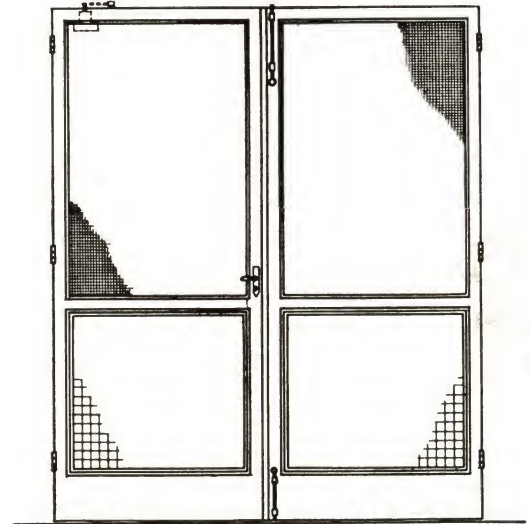
SCALE— $\frac{1}{2}$ FULL SCALE



This page shows details of the Heavy Weight Screen Door (Type 3A). However, Aluminum Screen Doors of the other weights shown on opposite page can be similarly detailed.



SINGLE DOOR

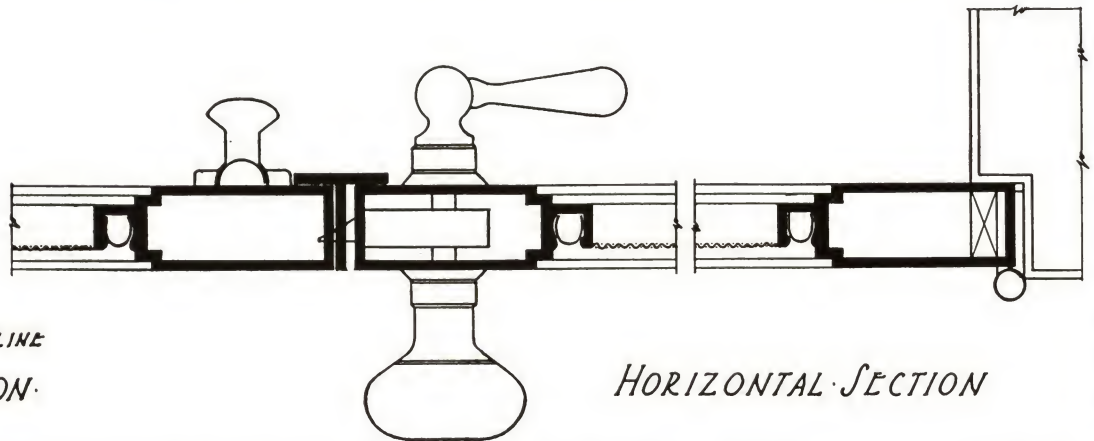


DOUBLE DOOR

SPECIFICATIONS

DOORS SHALL BE MADE OF $\frac{7}{8}$ " x $2\frac{1}{2}$ " EXTRUDED ALUMINUM, 53 STS. ALLOY WITH ALL CORNERS WELDED AND SURFACES FINISHED SMOOTH IN A NATURAL ALUMINUM WIRE BRUSH FINISH. WIRE CLOTH SHALL BE 16 MESH .015" ALUMINUM, DARK FINISH AND HELD IN PLACE WITH ROLLED ALUMINUM MOULDING ROLLED INTO CHANNEL OF THE FRAME. GUARD WIRE IN LOWER PANEL SHALL BE $\frac{1}{4}$ " x .054" THICK 12 MESH ALUMINUM SET IN $\frac{3}{8}$ " x $\frac{1}{4}$ " CHANNEL FRAME.

HARDWARE: EACH LEAF SHALL HAVE 1½ PAIR OF 3" x 2" LOOSE PIN HINGES, MORTISE LOCK AND LIQUID CHECK. OMIT CHECK ON STATIONARY LEAF OF PAIR OF DOORS. AND FURNISH TOP AND BOTTOM BOLTS. ALL HARDWARE TO BE SOLID BRONZE DULL CHROME FINISH EXCEPT LIQUID CHECKS WHICH SHALL BE CAST IRON, SILVER PAINTED FINISH.



VERTICAL SECTION

HORIZONTAL SECTION

ORANGE SCREEN

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MAPLEWOOD, N. J.

BRONZE AND STEEL FRAME SCREEN SECTIONS

BRONZE SCREENS OF SEAMLESS CONSTRUCTION

In Orange bronze frame screens we offer the strongest and most rigid construction that can be produced in tubular frame screens.

Each screen section is produced from a seamless round tube deformed through dies and requiring 3 or 4 draws to produce the required shape. This process makes a screen section of one piece construction with greater

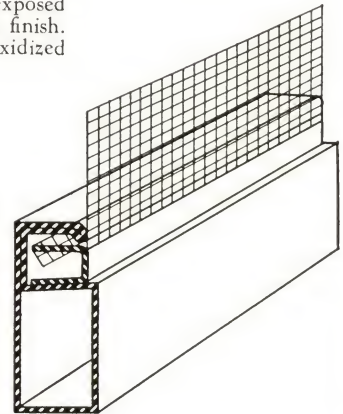
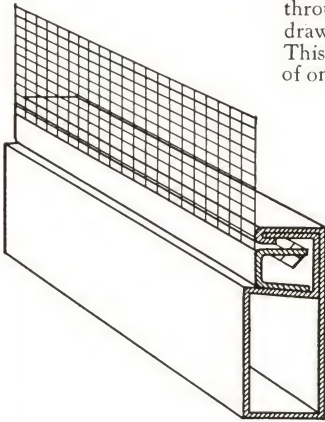
rigidity and strength and without weaves and twists so common with other makes of bronze screens rolled from sheet bronze.

Bronze frames are furnished in natural metal, which, when exposed to weather, oxidizes to a dark finish. They may also be artificially oxidized or polished and lacquered.

STEEL SCREENS OF TUBULAR CONSTRUCTION

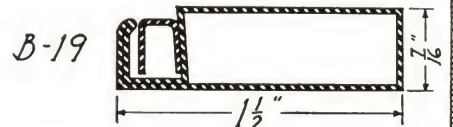
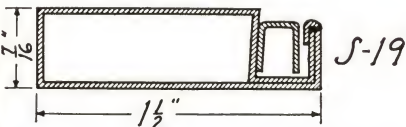
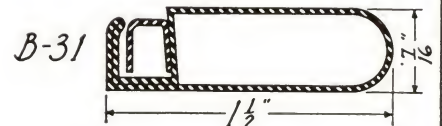
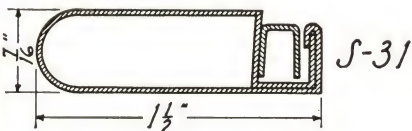
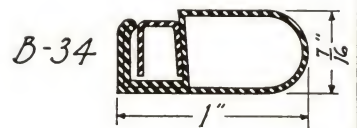
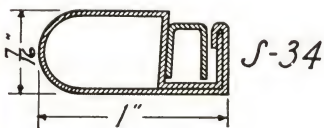
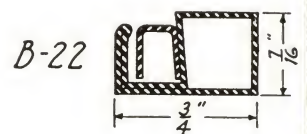
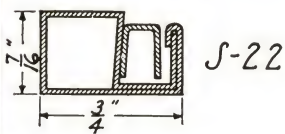
Screen frames are rolled from a single strip of copper bearing steel, passing through roll dies to produce the desired shape. Screen sections are then spot welded along the inner channel, to add strength and rigidity and prevent section from weaving and twisting.

Steel frames are furnished in electro-galvanized metal or rust-proofed in our own plant by the "bonderizing process" after the frame has been completely fabricated. In addition to the rust-proofing, the screen frames are given one or more coats of baked enamel finish, standard or sample color.



STEEL SECTIONS

BRONZE SECTIONS



Corner Construction of Bronze and Steel Screens

All corners are accurately mitred and reinforced with internal hollow section completely soldered, wheel brushed and cleaned. Where so specified, all joints will be brazed or welded.

Wire Cloth

Wire mesh for both bronze and steel screens generally furnished is 16 mesh antique bronze. Finer meshes are furnished if specified.

Size Limitations for Sections

Up to 18 sq. ft.:

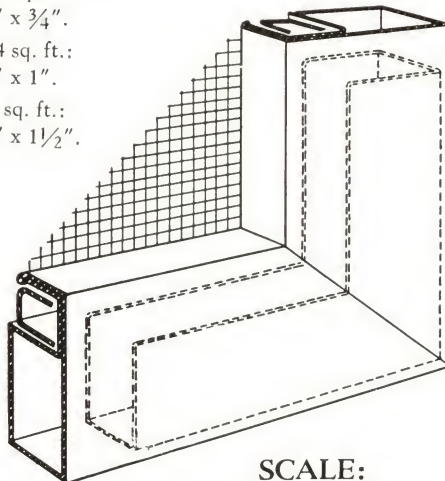
7/16" x 3/4".

Up to 24 sq. ft.:

7/16" x 1".

Over 24 sq. ft.:

7/16" x 1 1/2".



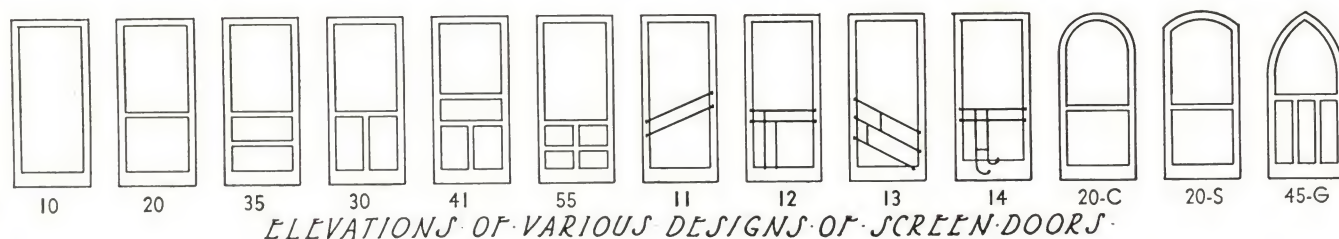
SCALE:
FULL SIZE

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WOOD FRAME SCREENS AND SCREEN DOORS



These illustrations show some of the possibilities of decorative effects of ornamental grilles used in connection with screen doors.

The one at the left shows the possibility of carrying out the general character of the leaded glass side lights.

At the right is shown a grille designed for a screen door leading to a garden.



MATERIAL AND CONSTRUCTION

The Orange Screen Company has been manufacturing wood frame screens for the past 28 years and recommends them for use where the initial cost is a dominant factor and where maintenance cost is not important.

Screen frames are constructed of selected lumber thoroughly dried. All corners are mortised and tennoned, tightly wedged and held with water-proof glue, sanded both sides and painted with pure white lead and linseed oil, or stained to match the adjacent trim. Unless otherwise specified, screen frames are made of clear white pine; however, we can furnish a complete line of screen frames in birch, oak, cypress, chestnut, mahogany and other hardwoods when so specified.

WINDOW SCREENS

Window screens are either $\frac{7}{8}$ " or $1\frac{1}{8}$ " thickness with stiles and rails $1\frac{3}{4}$ " wide. Full length screens have horizontal cross rails to align with the meeting rails of the sash. Sliding

screens are furnished complete with springs, lifts and wood or metal guides full height of the opening.

PORCH SCREENS

Porch screens are constructed of either $1\frac{1}{8}$ " or $1\frac{3}{8}$ " thickness with $2\frac{1}{2}$ " stiles, $3\frac{1}{2}$ " top rail and 7" bottom rail. Screens are furnished complete with cross braces, stops, astragals and other fitting pieces.

SCREEN DOORS

Screen doors are furnished in $1\frac{1}{8}$ " or $1\frac{3}{8}$ " thickness and are designed to harmonize with the general architecture of the existing house. Main entrance doors are generally furnished with ornamental grilles in the lower panel of the doors. For service doors, grilles or guard wire for the lower panel is generally supplied. Screen doors are furnished complete with solid brass mortise lock, $1\frac{1}{2}$ pr. of loose pin hinges and either air check or liquid check.

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ORANGE SCREEN COMPANY

515 VALLEY STREET • MAPLEWOOD, N. J.

NEW YORK OFFICE: 103 PARK AVENUE

Partial List of Representatives

Space Prevents the Listing of All Representatives

ALABAMA

BIRMINGHAM, Southern Sc. & W. S. Co.,
1733 McMillan Ave.

ARKANSAS

LITTLE ROCK, Nevil C. Winthrow Co.,
Insurance Bldg.

CALIFORNIA

LOS ANGELES, K. C. Gaines, 1046 So. Olive St.
SAN FRANCISCO, Braun-Steeple Co.,
636 Potrero Ave.

CONNECTICUT

DANBURY, Herbert M. Brown, Clapboard Ridge,
Dell View
HARTFORD, Hartford Wire Works Co.,
90 Allyn St.
STAMFORD, Fred S. Ruckel, 107 Washington
Ave.

DELAWARE

WILMINGTON, Morgan Bldg. Equipment Co.,
1900 Market St.

DISTRICT OF COLUMBIA

WASHINGTON, Arthur B. Gilbert, Chandler
Bldg., 1427 Eye Street, N.W.

FLORIDA

TAMPA, Stovall & Archer,
1009 Peninsular Tel. Bldg.
WEST PALM BEACH, Alexander Gordon,
P.O. Box 713.

GEORGIA

ATLANTA, Jos. S. Cook, P.O. Box 34,
North Side Sta.

ILLINOIS

CHICAGO, Roy A. Sanborn, 20 No. Wacker Dr.
PEORIA, Samuel J. Smith & Co.,
510 Lehmann Bldg.

INDIANA

EVANSVILLE, Charlton B. Green,
3421 Carl Ave.
INDIANAPOLIS, Pierson-Lewis Hdw. Co.,
115 E. Vermont St.

IOWA

DAVENPORT, Building Products Co.,
403 So. Howell St.

LOUISIANA

BATON ROUGE, Doherty Hardware Company
NEW ORLEANS, Riecke Cabinet Works,
Tulane Ave. cor. Solomon St.

MASSACHUSETTS

SPRINGFIELD, The A. S. Graves Co.,
14 Hawthorne St.

MICHIGAN

DETROIT, W. L. Holden, 9247 West Outer Dr.

MINNESOTA

MINNEAPOLIS, Geo. T. Warner,
126 So. 8th St.

MISSOURI

ST. LOUIS, A. A. Klutho Co.,
915 Syndicate Trust Bldg.

MONTANA

BUTTE, Archie W. Adams,
618 Metals Bank Bldg.

NEW HAMPSHIRE

NASHUA, New England Metal Weatherstrip Co.

NEW JERSEY

CAMDEN, Camden Iron Service Co.,
28 So. 4th St.

NEW YORK

BUFFALO, Paul Howlett, 243 Capen Blvd.
PORT RICHMOND, E. Sonnergren,
196 Lexington Ave.
ROCHESTER, E. W. Maurer, 705 Temple Bldg.

NORTH CAROLINA

CHARLOTTE, Edwin C. Boyette, Jr.,
1025 Arosa Ave.
RALEIGH, C. R. Huffman, 1323 Mordecai Dr.
SOUTHERN PINES, J. Bruce Cameron
WINSTON-SALEM, J. E. Hampton, Rt. 3,
R. R., Box 39.

OHIO

COLUMBUS, The Hausman Steel Co.
CLEVELAND, The Weathertite Co.,
1266 W. 6th St.
MARIETTA, E. A. Williams, 308 Fourth St.
TOLEDO, Frank Robinson, 1005 Shadowlawn Dr.
YOUNGSTOWN, L. D. Sheffield Co.,
144 W. Wood St.

OKLAHOMA

OKLAHOMA CITY, J. B. Klein Iron & Foundry
Co.

OREGON

PORTLAND, Cress & Co., 699 Pettygrove

PENNSYLVANIA

ALLENTOWN, Miller & Singer, 238 N. 8th St.
HARRISBURG, Metal Building Products,
1515 No. Cameron St.
HAZLETON, Home Improvement Sales Co.,
704 Markle Bank Bldg.
LANCASTER, Keystone Equipment Co.
PHILADELPHIA, Furlong & Stout, 10 S. 18th St.
PITTSBURGH, E. K. Geyser & Co.,
200 Cedarhurst St.
SCRANTON, A. D. Parsons, Inc., 151 Cedar Ave.
SPRINGFIELD, (Del. County), C. C. Conner,
21 Congress Ave.

TENNESSEE

CHATTANOOGA, J. H. Botsford & Co.,
P.O. Box 884
JOHNSON CITY, E. A. Lancaster, Jr.,
John Sevier Hotel Bldg.
NASHVILLE, Ryan Sales Corp.,
3520 West End Ave.

TEXAS

DALLAS, J. L. O'Hearn, 630 Wilson Bldg.
HOUSTON, Earl Jones, 708 M. & M. Bldg.
SAN ANTONIO, J. W. Phillips Co.,
Builders Exch.

UTAH

SALT LAKE CITY, Steel Engineers Co.,
1526 S.W. Temple

VIRGINIA

ARLINGTON, Wine & Minkel, P.O. Box 205
DANVILLE, J. W. Squire & Co., 760 Loyal St.
NORFOLK, Glass & Specialty Co., 224 W. 21st St.
PORTSMOUTH, H. B. Wilkins,
1213 Washington St.
RICHMOND, Applied Insulating Co.,
1818-20 W. Cary St.

WASHINGTON

SEATTLE, D. E. Fryer & Co., 304 Textile Tower

WISCONSIN

MILWAUKEE, C. C. Banholzer,
728 No. Jefferson St.

WYOMING

SHERIDAN, Western Steel & Machine Wks.,
401 Broadway

